

Plantae Chinenses Forrestianae.

Plants discovered and collected by George Forrest during his first exploration of Yunnan and Eastern Tibet in the years 1904, 1905, and 1906.

Description of New Species of Lespedeza.

BY

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With Plates VI-VIII.

Lespedeza Balfouriana, Diels mss. ex Schindler in Fedde, Repertorium ix (1911), 522. (*Campylotropis*.) Plate vi.

Frutex 4-8-pedalis erectus ramis virgatis acute triquetris minute alatis pallide viridibus glabris. Folia stipulis magnis semilanceolatis subscarioso-papyraceis pallidis multinervosis glabris 10-12 mm. longis 3 mm. latis angulis decurrentibus et petiolo late alato ad 6 cm. longo sparse pilosulo praedita, foliola papyracea elliptica vel late lanceolata apice acuta vel rotundata mucronata fere glabra subtus pallidiora nervis secundariis utrimque vix prominentibus, terminale petiolulatum 5-6 cm. longum lateralibus subsessilibus 4-5 cm. longa, omnia 1.5-2.3 cm. lata. Stipellae nullae. Racemi axillares et terminales paniculati saepe bini vel terni pedunculati, cum pedunculo 8-25 cm. longi; bracteae stipulis similes lanceolatae scariosae ad 5 mm. longae persistentes; pedicelli quam bracteae subduplo longiores adpresse pubescentes. Bracteolae lanceolatae acutae 1-1.5 mm. longae subsistentes. Calyx sparse longeque adpresse brunneo-pubescentis tubo 2.5 mm., laciniis superis 2-2.5 mm. infero 4-4.5 mm. longo acutis summa vix incisa. Corolla pallide lutea calyce duplo longior vexillo 9-10 mm. longo 6-7 mm. lato, alis 10-11 mm. longis 5 mm. latis, carina acutissima angulo fere acuto sursum curvata parte infera 9, supera 7 mm. longa. Legumen pedicello subduplo brevius oblique orbiculato-ovatum breviter mucronatum et stipitatum obsolete reticulatum brevissime sparse pilosulum cum stipite et mucrone 7-8 mm. longum et 4 mm. latum, mucrone 0.5, stipite 1.5-2 mm. longo.

"Shrub of 4-8 ft. Flowers pale canary-yellow. Moist, open,
[Notes, R.B.G., Edin., No. XXXVI, March 1913.]

and shady situations amongst scrub, and on the margins of pine forests on the eastern flank of the Tali Range. Lat. $25^{\circ} 40'$. Alt. 8000–10,000 ft. June–September 1906." G. Forrest. No. 4241.

Lespedeza Feddeana, Schindler in Fedde, Repertorium x (1912), 405. Plate vii.

Suffrutex erectus ramosus, caule ramisque lineato-angulatis, breviter adpresse pubescentibus demum glabris. Folia stipulis lineari-subulatis extus puberulis 4–5 mm. longis et petiolo superne sulcato pubescente ad 1 cm. longo praedita, rhachis brevis, semper distincta, dimidium petioli fere aequans; foliola lineari-elliptica vel oblonga, apice acutiuscula mucronata, marginibus subrevoluta, pallide viridia, superne glabra subtus longe denseque adpresse sericea; terminale ad 2.5 cm. longum et ad 6 mm. latum; lateralia paulo minora, nervis secundariis utrinque distinctis remotis subparallelis, arcubus latis connectis, reticulo inter nervos distincto; stipellas non vidi. Racemi florum perfectorum in foliorum superiorum axillis sessiles, glomerati vel pedunculati, elongati cum pedunculo ad 4.5 cm. longi. Bractae lineares, primariae 1.2 mm. secundariae 2.5–3 mm. longae, calycis dimidium aequantes. Calyx 6–8 mm. longus, ad basin fere fissus, tubo 1 mm. tantum longo, laciniis lineari-subulatis, 2 posticis subbrevicribus 1.5 mm. alte connatis, antica longiore, longe denseque pilosis. Corolla ochroleuca cum macula violacea ad vexilli basin, calycem paullo tantum superans, vexillo alas et carinam paullo excedente, vexillo 8.5–9.5 mm. longo et 4.5–5 mm. lato, basi distincte appendiculo apice in apiculum parvum protracto, alis 7–8.2 mm. longis et 2 mm. latis rectis, carina 8–8.5 mm. longa et 2.5 mm. lata. Flores apetalii in foliorum axillis sessiles glomerati, saepe ad basin pedunculi florum perfectorum. Legumen ignotum.

"Divide between Lang Kung and Chien Chuan valleys. Grassy hillsides. Lat. $26^{\circ} 20'$ N. Alt. 8000 ft. Yunnan. 1904." G. Forrest. No. 152.

Also Ki-mi-se, above Chiang yu, not far from Hochiang chou. Lat. $26^{\circ} 32'$ N. Long. $100^{\circ} 9'$ E. Delavay. No. 2740.

Very similar to *L. Gerardiana*, Grah., but differing in the branched stem, the linear bracts and bracteoles, the relation of the calyx to the corolla, the rhachis of the leaves, the pointed leaflets, and the nervation of the leaf; in *L. Gerardiana*, Grah., the secondary nerves are very close and no net of veinlets between them.

Lespedeza Forrestii, Schindler in Fedde, Repertorium x (1912), 406. Plate viii.

Herba suffrutescens vel suffrutex parvus e radice polycephala caules complures repentes simplices emittens; caules novelli

dense longeque patenter villosi. Folia stipulis 2 fusco-membranaceis ad caulis basin latis ovatis acuminatis, apicem versus linearibus parallele nervosis demum reflexis extus villosis ad 6 mm. longis, et petiolo brevi villoso praedita, rhachi subnulla vel nulla; stipellas non vidi; foliola cuneato-oblonga, apice emarginata vel obtusa brevissime mucronata, superne glabra, subtus margineque laxe pubescentia, nervis secundariis tenellis utrinque subdistinctis, ad 20 mm. longa et ad 6 mm. lata. Flores in foliorum axillis subsolitarii (1-3), bracteae lineares 1-2 mm. longae, pedicelli pilosissimi 2 mm. longi, bracteolae lineares 2.5 mm. longae, extus longe pilosae. Calyx 8-9 mm. longus pilosissimus, profunde ultra dimidium fissus, tubo 2-2.5 mm. longo, laciniis lanceolatis longe acuminatis, posticis 5-5.5 mm. longis, 2-2.5 mm. alte connatis, lateralibus 6 mm., antica 6.5-7 mm. longis. Corolla calycem dimidio fere excedens, ex sicco pallide rosea cum macula violacea ad vexilli basin, vexillo 1-1.5 mm. longiore quam alis, his carinam 0.5-0.7 mm. excedentibus, vexillo late ovato apice retuso et minutissime apiculato, ad unguem appendiculo magno inflexo a latere occulto praedito, 10.5-12 mm. longo et 7.5-8 mm. lato, alis obtusis 9.5-11 mm. longis et 2.5 mm. latis, carina semi-orbiculari obtusa, 9-10, 2 mm. longa et 3 mm. lata; ovarium longe pilosum stipitatum. Legumen ignotum.

"Plant of 2-6 inches. Flowers pale pink. Dry, stony, shady places in pine woods. Eastern flank of the Lichiang Range. Lat. 27° 12'. Long. 100° 14'. Alt. 9000-10,000 ft. June 1906." G. Forrest. No. 2416.

LIST OF PLATES

Illustrating Dr. A. K. Schindler's Paper on species of *Lespedeza* collected by George Forrest in Yunnan.

The plates are taken from photographs by Mr. R. Adam of dried specimens in the Herbarium of the Royal Botanic Garden, Edinburgh.

PLATE VI. *Lespedeza Balfouriana* (Diels mss.), Schindler. Sp. nov.

VII. *Lespedeza Feddeana*, Schindler. Sp. nov.

VIII. *Lespedeza Forrestii*, Schindler. Sp. nov.



LESPEDeza BALFOURIANA, SCHINDLER,



LESPEDeza FEDDEANA, SCHINDLER.

